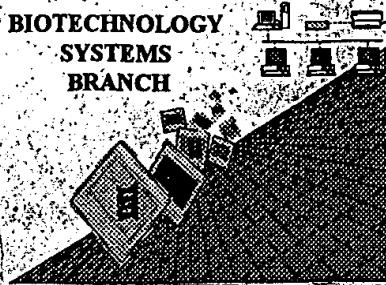


16665
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TECH CENTER 1600/2900

RAW SEQUENCE LISTING
ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/841,091

Source: OIPR

Date Processed by STIC: 12/20/2001

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission

User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two,
Lobby, Room 1B03, Arlington, Virginia 22202

4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence,
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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/841,091

DATE: 12/20/2001
 TIME: 21:07:02

Input Set : A:\NEMC-215.txt
 Output Set: N:\CRF3\12202001\I841091.raw

P/S
*Does Not Comply
 Corrected Diskette Needed*

3 <110> APPLICANT: Kuliopoulos, Athan
 4 Covic, Lidija
 6 <120> TITLE OF INVENTION: G Protein Coupled Receptor (GPCR) Agonists and
 7 Antagonists and Methods of Activating and Inhibiting
 8 GPCR Using the Same
 10 <130> FILE REFERENCE: 18475-034
 12 <140> CURRENT APPLICATION NUMBER: 09/841,091
 13 <141> CURRENT FILING DATE: 2001-04-23
 15 <150> PRIOR APPLICATION NUMBER: 60/198,993
 16 <151> PRIOR FILING DATE: 2000-04-21
 18 <160> NUMBER OF SEQ ID NOS: 37
 20 <170> SOFTWARE: PatentIn Ver. 2.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 19
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
 29 Peptide Sequence
 31 <400> SEQUENCE: 1
 32 Arg Cys Leu Ser Ser Ser Ala Val Ala Asn Arg Ser Lys Lys Ser Arg
 33 1 5 10 15
 35 Ala Leu Phe
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 13
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
 46 Peptide Sequence
 48 <400> SEQUENCE: 2
 49 Ala Val Ala Asn Arg Ser Lys Lys Ser Arg Ala Leu Phe
 50 1 5 10
 53 <210> SEQ ID NO: 3
 54 <211> LENGTH: 7
 55 <212> TYPE: PRT
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
 60 Peptide Sequence
 62 <400> SEQUENCE: 3
 63 Lys Lys Ser Arg Ala Leu Phe
 64 1 5
 67 <210> SEQ ID NO: 4
 68 <211> LENGTH: 12
 69 <212> TYPE: PRT
 70 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 12/20/2001
PATENT APPLICATION: US/09/841,091 TIME: 21:07:02

Input Set : A:\NEMC-215.txt
Output Set: N:\CRF3\12202001\I841091.raw

72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
74 Peptide Sequence
76 <400> SEQUENCE: 4
77 Arg Cys Leu Ser Ser Ser Ala Val Ala Asn Arg Ser
78 1 5 10
81 <210> SEQ ID NO: 5
82 <211> LENGTH: 15
83 <212> TYPE: PRT
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
88 Peptide Sequence
90 <400> SEQUENCE: 5
91 Arg Cys Leu Ser Ser Ser Ala Val Ala Asn Ser Ser Ala Leu Phe
92 1 5 10 15
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 19
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
102 Peptide Sequence
104 <400> SEQUENCE: 6
105 Arg Cys Glu Ser Ser Ser Ala Glu Ala Asn Arg Ser Lys Lys Glu Arg
106 1 5 10 15
108 Glu Leu Phe
112 <210> SEQ ID NO: 7
113 <211> LENGTH: 21
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
119 Peptide Sequence
121 <400> SEQUENCE: 7
122 Arg Met Leu Arg Ser Ser Ala Met Asp Glu Asn Ser Glu Lys Lys Arg
123 1 5 10 15
125 Lys Arg Ala Ile Lys
126 20
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 21
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial Sequence
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135 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
136 Peptide Sequence
138 <400> SEQUENCE: 8
139 Arg Met Leu Arg Ser Ser Ala Met Asp Glu Asn Ser Glu Lys Lys Arg
140 1 5 10 15

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/841,091

DATE: 12/20/2001
TIME: 21:07:02

Input Set : A:\NEMC-215.txt
Output Set: N:\CRF3\12202001\I841091.raw

142 Lys Arg Ala Ile Phe
143 20
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 15
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
153 Peptide Sequence
155 <400> SEQUENCE: 9
156 His Thr Leu Ala Ala Ser Gly Arg Arg Tyr Gly His Ala Leu Arg
157 1 5 10 15
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 15
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
167 Peptide Sequence
169 <400> SEQUENCE: 10
170 His Thr Leu Ala Ala Ser Gly Arg Arg Tyr Gly His Ala Leu Phe
171 1 5 10 15
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 23
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
181 Peptide Sequence
183 <400> SEQUENCE: 11
184 Lys Val Lys Ser Ser Gly Ile Arg Val Gly Ser Ser Lys Arg Lys Lys
185 1 5 10 15
187 Ser Glu Lys Lys Val Thr Lys
188 20
191 <210> SEQ ID NO: 12
192 <211> LENGTH: 23
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
198 Peptide Sequence
200 <400> SEQUENCE: 12
201 Lys Val Arg Ser Ser Gly Ile Arg Val Gly Ser Ser Lys Arg Lys Lys
202 1 5 10 15
204 Ser Glu Lys Lys Val Thr Phe
205 20
208 <210> SEQ ID NO: 13
209 <211> LENGTH: 19
210 <212> TYPE: PRT

RAW SEQUENCE LISTING DATE: 12/20/2001
PATENT APPLICATION: US/09/841,091 TIME: 21:07:02

Input Set : A:\NEMC-215.txt
Output Set: N:\CRF3\12202001\I841091.raw

211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
215 Peptide Sequence
217 <400> SEQUENCE: 13
218 Arg Ile Arg Ser Asn Ser Ser Ala Ala Asn Leu Met Ala Lys Lys Arg
219 1 5 10 15
221 Val Ile Arg
225 <210> SEQ ID NO: 14
226 <211> LENGTH: 20
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
232 Peptide Sequence
234 <400> SEQUENCE: 14
235 Arg Ile Arg Ser Asn Ser Ser Ala Ala Asn Leu Met Ala Lys Lys Arg
236 1 5 10 15
238 Val Ile Glu Phe
239 20
242 <210> SEQ ID NO: 15
243 <211> LENGTH: 18
244 <212> TYPE: PRT
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
249 Peptide Sequence
251 <400> SEQUENCE: 15
252 Ser Gly Ser Arg Pro Thr Gln Ala Lys Leu Leu Ala Lys Lys Arg Val
253 1 5 10 15
255 Val Arg
259 <210> SEQ ID NO: 16
260 <211> LENGTH: 18
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
266 Peptide Sequence
268 <400> SEQUENCE: 16
269 Ser Gly Ser Arg Pro Thr Gln Ala Lys Leu Leu Ala Lys Lys Arg Val
270 1 5 10 15
272 Val Phe
276 <210> SEQ ID NO: 17
277 <211> LENGTH: 6
278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Description of Artificial Sequence: Extracellular
283 Agonist Peptide Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/841,091

DATE: 12/20/2001
TIME: 21:07:02

Input Set : A:\NEMC-215.txt
Output Set: N:\CRF3\12202001\I841091.raw

285 <400> SEQUENCE: 17
286 Ser Leu Ile Gly Lys Val
287 1 5
290 <210> SEQ ID NO: 18
291 <211> LENGTH: 14
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Extracellular
297 Agonist Peptide Sequence
299 <400> SEQUENCE: 18
300 Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
301 1 5 10
304 <210> SEQ ID NO: 19
305 <211> LENGTH: 97
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
311 Peptide Sequence
313 <220> FEATURE:
314 <221> NAME/KEY: VARIANT
315 <222> LOCATION: (1)..(97)
316 <223> OTHER INFORMATION: Wherein Xaa is a space/gap induced by peptide alignment analysis
319 <400> SEQUENCE: 19
W--> 320 Arg Cys Leu Ser Ser Ser Ala Val Ala Asn Arg Ser Xaa Xaa Xaa Xaa
321 1 5 10 15
W--> 323 Xaa
324 20 25 30
W--> 326 Xaa
327 35 40 45
W--> 329 Xaa
330 50 55 60
W--> 332 Xaa
333 65 70 75 80
W--> 335 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Lys Ser Arg Ala Leu
336 85 90 95
338 Phe
342 <210> SEQ ID NO: 20
343 <211> LENGTH: 97
344 <212> TYPE: PRT
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Description of Artificial Sequence: Pepducin
349 Peptide Sequence
351 <220> FEATURE:
352 <221> NAME/KEY: VARIANT
353 <222> LOCATION: (1)..(97)

Xaa can only represent a single amino acid.

Per 1.822(5)(e)
of sequence

Ruler, "A sequence with a gap or gaps shall be presented as a plurality of separate sequences, until separate sequence identifiers --"

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/841,091

DATE: 12/20/2001
TIME: 21:07:03

Input Set : A:\NEMC-215.txt
Output Set: N:\CRF3\12202001\I841091.raw

L:320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31